№9 $n_1 = n_2 = 300$

H_0: оба потока однородны

H_1: $\overline{H_0}$

	A_2	A_3	A_4	A_5
1	33	43	80	144
2	39	35	72	154
Σ	72	78	152	198
P	$\frac{72}{600}$	$\frac{78}{600}$	$\frac{152}{600}$	$\frac{198}{600}$

$$\tilde{\Delta}_1 = \frac{\left(33 - 300 \cdot \frac{72}{600}\right)^2}{300 \cdot \frac{72}{600}} + \frac{\left(43 - 300 \cdot \frac{78}{600}\right)^2}{300 \cdot \frac{78}{600}} + \frac{\left(80 - 300 \cdot \frac{152}{600}\right)^2}{300 \cdot \frac{152}{600}} + \frac{\left(144 - 300 \cdot \frac{198}{600}\right)^2}{300 \cdot \frac{198}{600}} \simeq$$

$$\simeq 0{,}25 + 0{,}41 + 0{,}21 \simeq 0{,}87$$

$$\tilde{\Delta}_2 = \frac{\left(39 - 300 \cdot \frac{72}{600}\right)^2}{300 \cdot \frac{72}{600}} + \frac{\left(35 - 300 \cdot \frac{78}{600}\right)^2}{300 \cdot \frac{78}{600}} + \frac{\left(72 - 300 \cdot \frac{152}{600}\right)^2}{300 \cdot \frac{152}{600}} + \frac{\left(154 - 300 \cdot \frac{198}{600}\right)^2}{300 \cdot \frac{198}{600}} \simeq$$

$$\simeq 0{,}25 + 0{,}41 + 0{,}21 \simeq 0{,}87$$

$$\tilde{\Delta}_t = \tilde{\Delta}_1 + \tilde{\Delta}_2 = 1{,}74$$

$$\Delta \sim \chi^2_{(4-1)(2-1)} = \chi^2_{(3)}$$

$$p\text{-value} = P(\Delta > \tilde{\Delta} \mid H_0) = \int_{1{,}78}^{+\infty} p_{\chi^2_{(3)}}(x)\,dx \approx 0{,}377 > 0{,}05$$

$\Rightarrow$ (Нет оснований отвергнуть H_0)